

PATENT ABSTRACTS OF JAPAN

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(21)Application number : 2000-068766 (71)Applicant : NARA INSTITUTE OF
SCIENCE &
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OGAWA KAZUYA

(54) NEW MERCAPTO-SUBSTITUTED IMIDAZOLYLPORPHYRIN METAL
COMPLEX MONOMER, POLYMER HAVING THE SAME AS RECURRING
UNIT AND METHOD FOR PRODUCING THE SAME

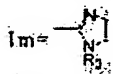
(57)Abstract:

PROBLEM TO BE SOLVED: To provide a device which is a transmitting device of an extremely minute light energy and electronic energy in a nanometer scale capable of being applied and developed to an artificial photosynthesis and a new material for solar cells, allows to strongly and stably connect to the surface of an electrode, has easiness of connection and disconnection and is formed by self- organization.

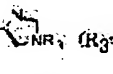
SOLUTION: This mercapto-substituted imidazolyldiporphyrin metal complex monomer is represented by general formula (1) and the polymer has the metal complex monomer as a monomer.



R₁=アルキル基、芳香族のアリール基、アルキル基のアリール基、
又はアルキル基の芳香族アリール基
M=Zn, Co, Ru, Fe, Cu
X=アリーレン基及びアルキレン基の少なくとも一方を含む二価の基
R₂=H 又はアセチル基



(2)



(3)

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